



V09062

**UHER**

**COMPACT DISC PLAYER**

**1200 CD**



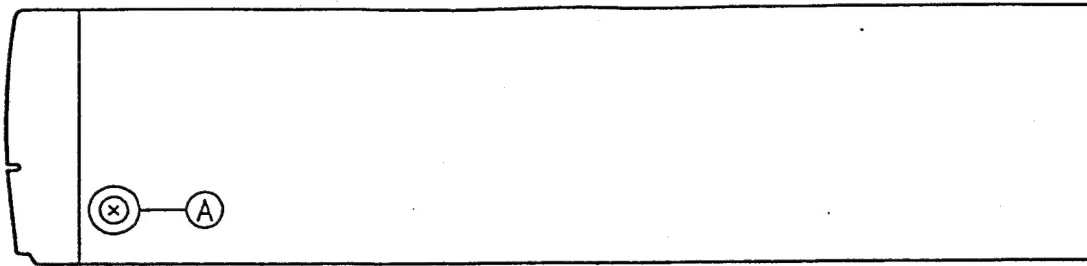


Figure 1

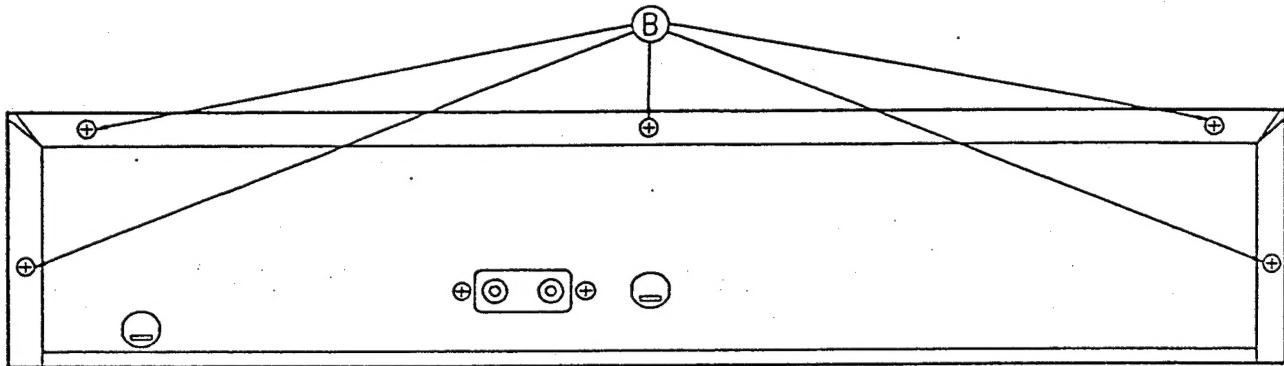


Figure 2

TO REMOVE TOP COVER

1. Remove 2 screws (A) from left and right sides of top cover. (See Fig: 1)
2. Remove 5 screws (B) from back panel of top cover. (See Fig. 2)
3. Top cover can now be removed.

## Adjustment Locations

CD DECODER PCB

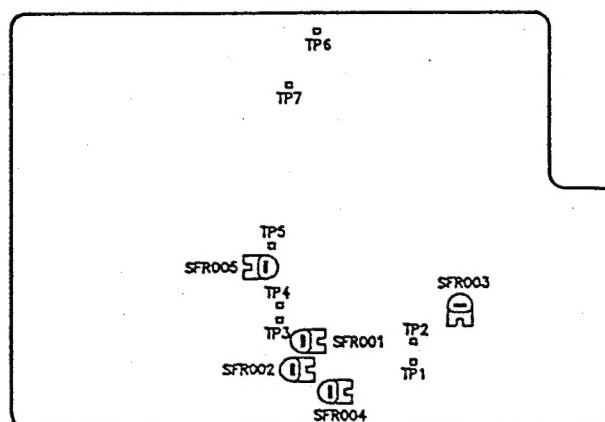


Figure 3

Uher  
1200 CD

MODEL NO. COMPACT 1200CD  
COMPACT DISC PLAYER

SPECIFICATIONS

PLAYBACK SYSTEM

COMPACT DISC DIGITAL AUDIO

TYPICAL AUDIO PERFORMANCE

FREQUENCY RANGE  
OUTPUT IMPEDANCE  
OUTPUT LEVEL  
AMPLITUDE LINEARITY  
SIGNAL-TO-NOISE RATIO  
CHANNEL SEPARATION  
T.H.D. (INCL. NOISE)  
INTERMODULATION DISTORTION

20Hz - 20kHz  
10k ohm//300pF  
1.7 Vrms  
±1.0dB  
> 84dB W/F  
> 78dB W/F (1kHz)  
< 0.1% W/F (1kHz)  
-60dB (AT MAX. OUTPUT)

OPTICAL READOUT SYSTEM

LASER TYPE  
NUMERICAL APERTURE  
WAVE LENGTH

SEMICONDUCTOR AL CA AS  
0.456  
780 nm

POWER SUPPLY

POWER SOURCE  
POWER CONSUMPTION

AC 230V, 50Hz  
8.5 WATT WITH 4 DIGIT LCD DISPLAY

DIMENSION

W=41.9cm(16-1/2") x H=8.5cm(3-3/8") x  
D=35.4cm(13-15/16")

WEIGHT

4 kgs (8.8 lbs)

**RF PLL VCO Adjustment**

Test Points: TP5, TP6, TP7

1. Short TP5 and TP6, in stop mode.
2. Frequency counter connect to TP7, adjust SFR005, let counter reading as  $4.2418\text{MHz} \pm 10\text{KHz}$  (4.2318-4.2518).
3. Open TP5 and TP6 after above procedures.

**Focus Bias Adjustment**

Test Points: TP1, TP2

1. In play mode.
2. Scope connect to TP1 (RF) and TP2 (GND).
3. Adjust SFR003 let RF waveform output to maximum.

**EF Balance Adjustment**

Test Points: TP2, TP3, TP4

1. In play mode, scope connect to TP4 and TP2 (GND), TP2 and TP3 short.
2. Adjust SFR004 symmetrize to DC 0V.
3. See Fig. 4

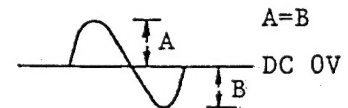


Figure 4

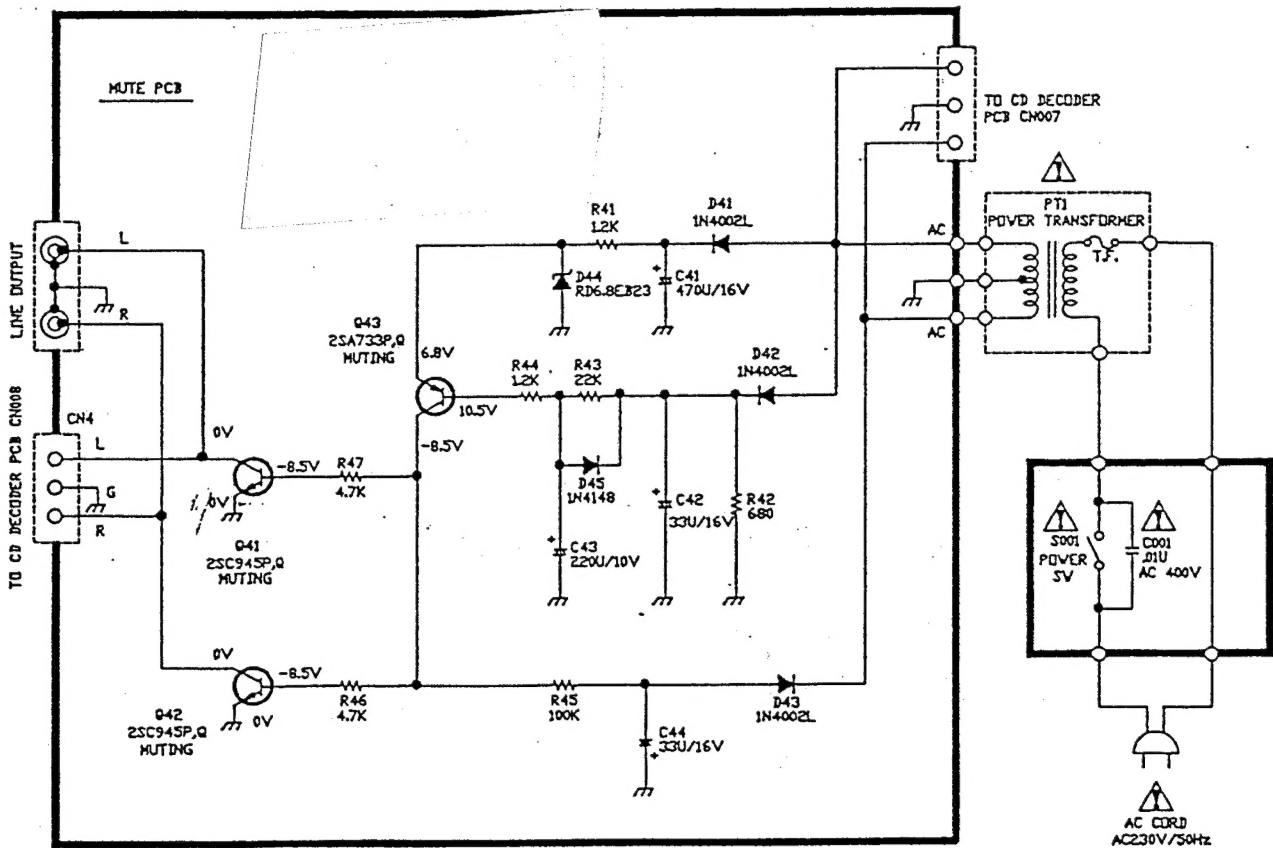
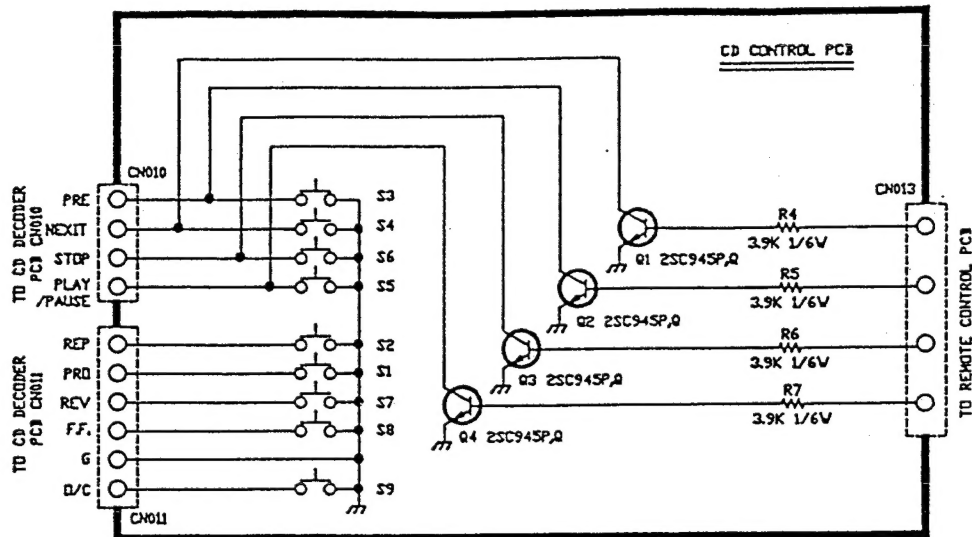
**Focus Servo Gain Adjustment**

1. Power OFF.  
Disconnect CN009, and connect sony CDP servo analyzer.
2. Power ON and play the disc (YEDS-18)
3. Set servo analyzer in focus mode, and adjust SFR002.
4. Let the pointers in the center of the red area (GND to TP6).
5. Repeat the adjustment for the first and the last programs of the disc.

**Track Servo Gain Adjustment**

1. Set servo analyzer in track mode.
2. Adjust SFR001, let the pointers in the center of the red area (GND to TP6).
3. Repeat the adjustment for the first and the last programs of the disc.
4. Power OFF, re-connect CN009.

Remark: All the adjustment personnel should equipped with anti-static wristlet.



## SCHEMATIC NOTES:

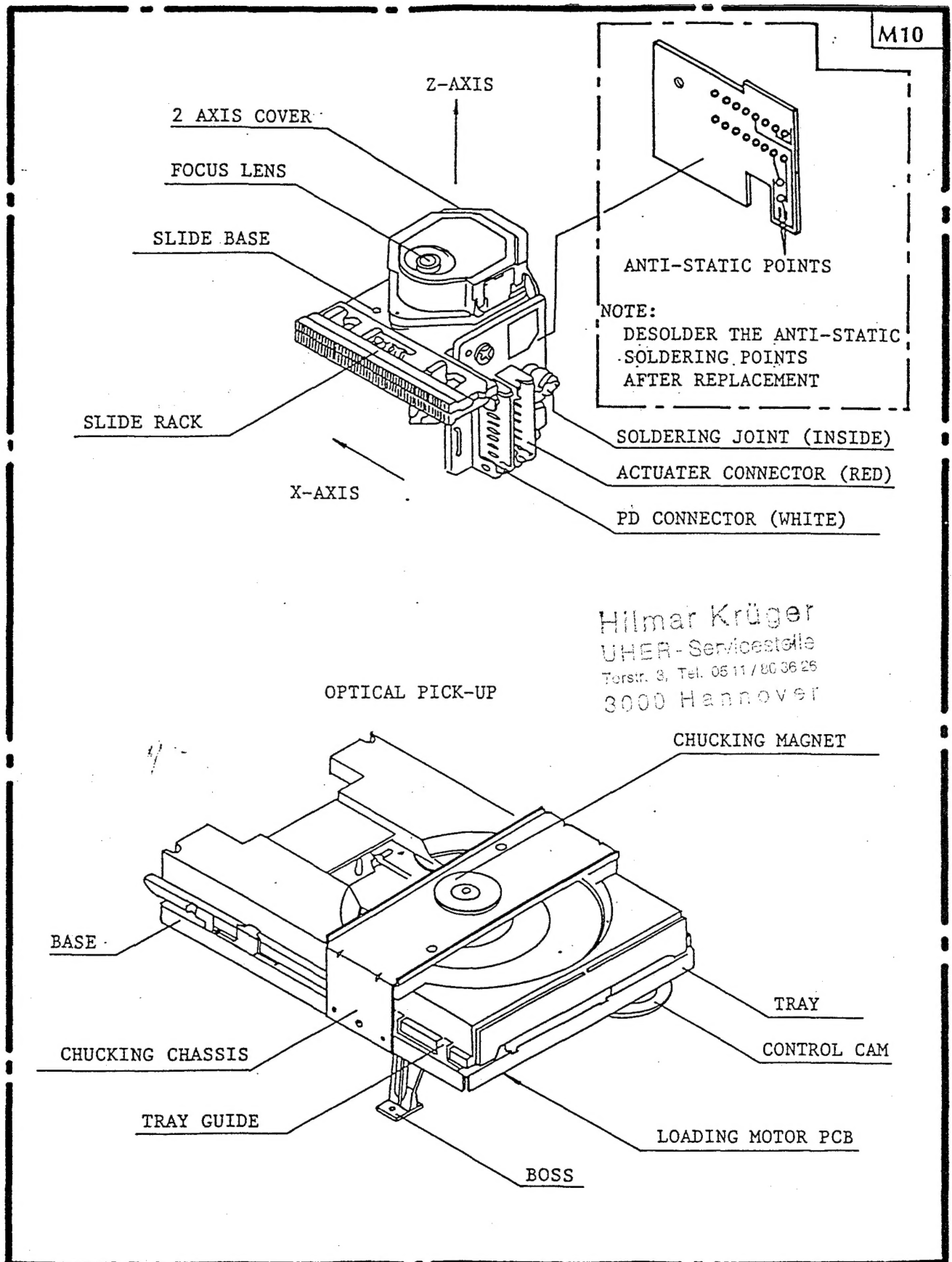
1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. RESISTANCE VALUES ARE IN OHMS  
K=1000Ω-MEGOHMS.
3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/4 WATT CARBON FILM ±5% TOLERANCE.
4. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER 10 MEGOHMS MIN.
5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
6. =COMMON GROUND SYMBOL.
7. S1-S9 =TACT SWITCH.



\*ALL INTEGRATED CIRCUITS AND MANY OTHER SEMICONDUCTOR DEVICES ARE ELECTROSTATICALLY SENSITIVE AND THEREFORE REQUIRE THE SPECIAL HANDLING TECHNIQUES DESCRIBED UNDER THE "ELECTROSTATICALLY SENSITIVE(S) DEVICES" SECTION OF THIS SERVICE MANUAL.\*

# CD Player Exploded View

Model No. COMPACT 1200



NOTE:

USE THIS DIAGRAM FOR REFERENCE ONLY. PARTS NOT AVAILABLE SEPARATELY.

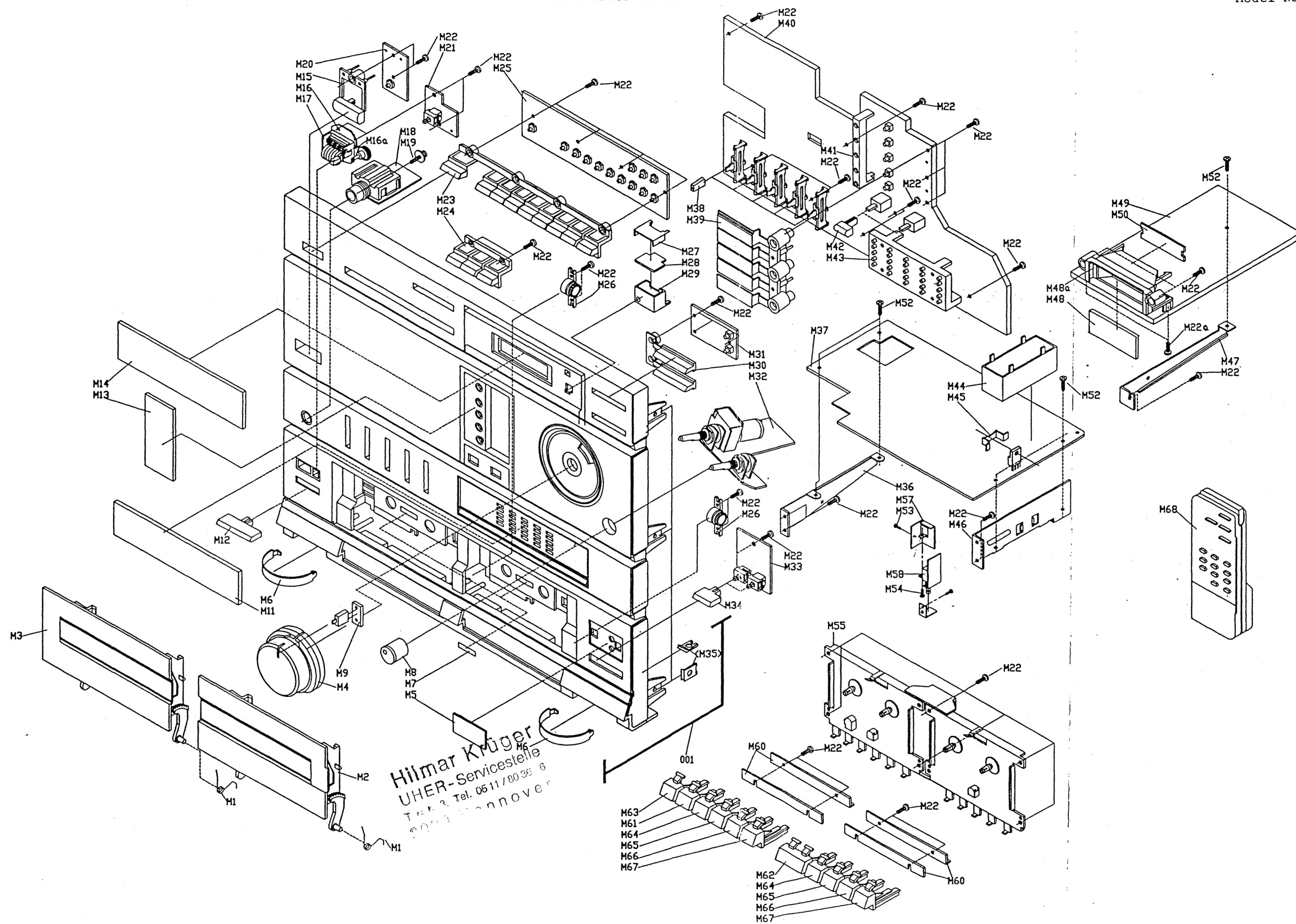




# Mechanical Exploded View (A)

Model No. COMPACT 1200CD

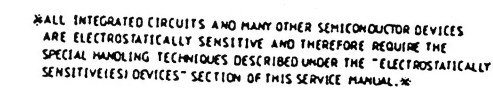
Model No. COMPACT 1200CD



Hilmar Krüger  
UHER-Servicestelle  
Tel. 0511/8036 6  
3000 Hannover

Model No. COMPACT 1200CD

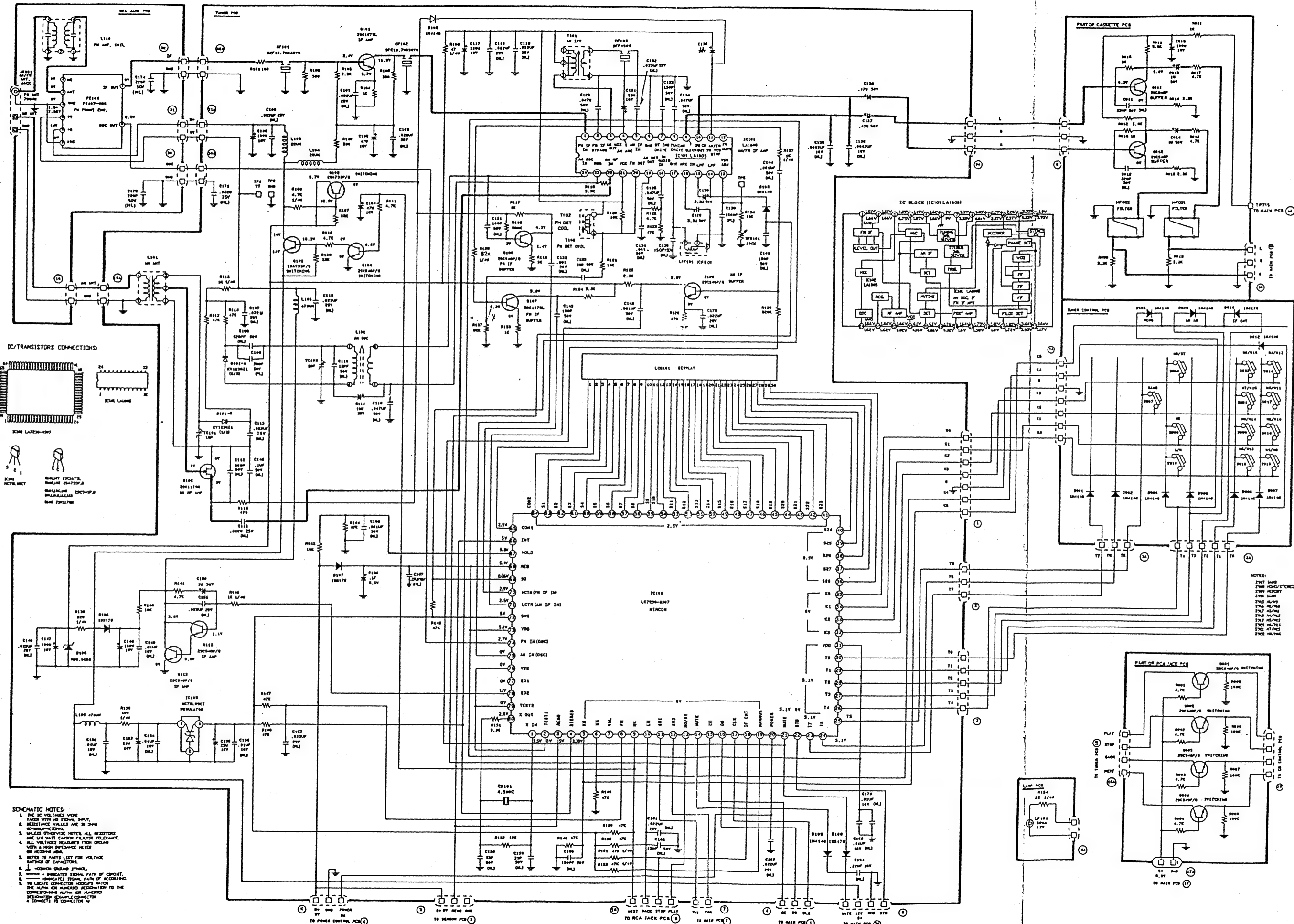
Model No. COMPACT 1200CD



# Tuner Schematic Diagram

Model No. COMPACT 1200CD

Model No. COMPACT 1200CD



Model No. COMPACT 1200CD

This diagram is an exploded view of a radio receiver chassis, showing the relationship between various components and their assembly points. The components are labeled with alphanumeric codes:

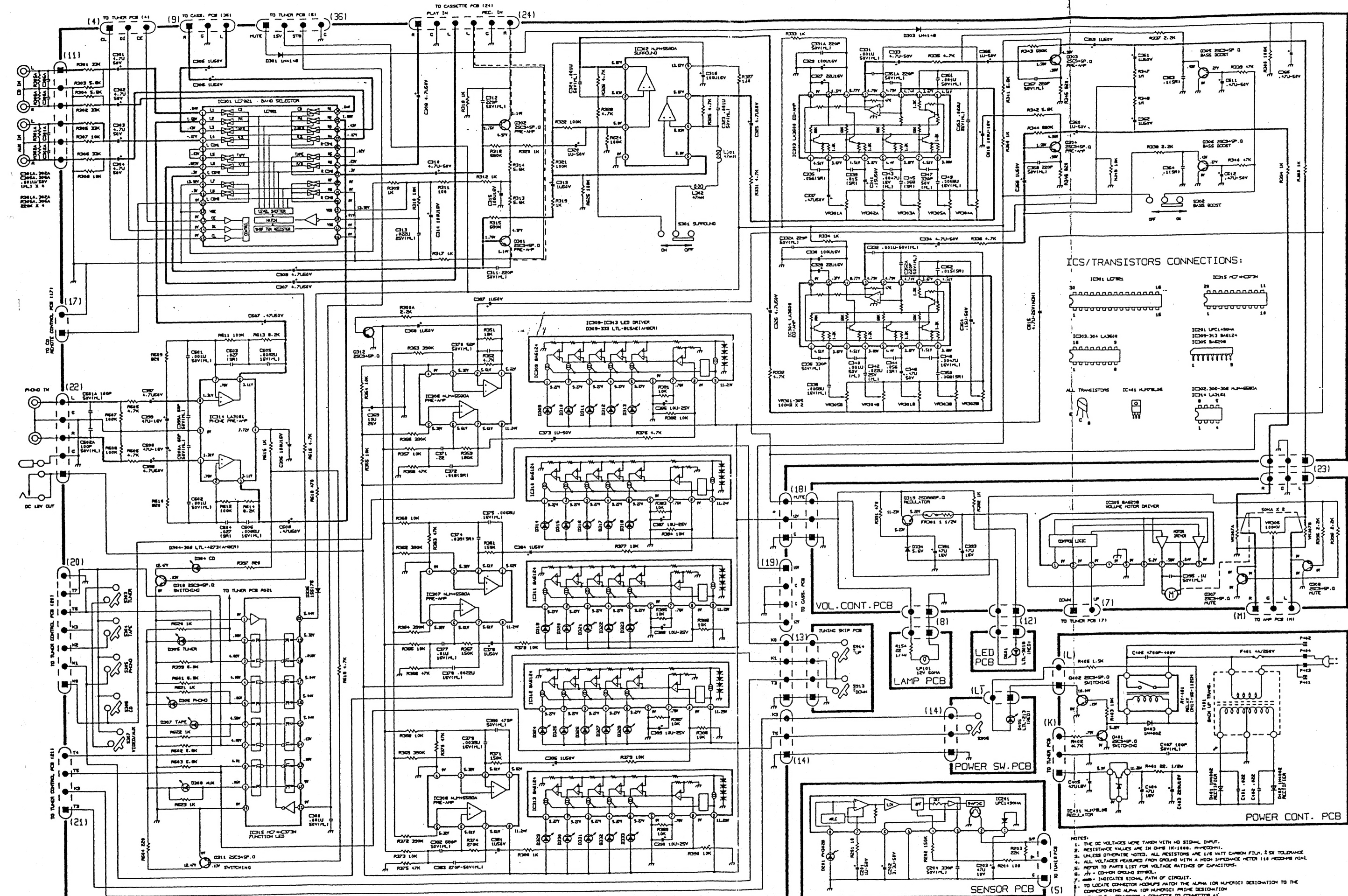
- Chassis and Panels:** H87 (Top Panel), H73 (Front Panel), H85 (Rear Panel), H97 (Bottom Panel).
- Internal Components:** H88 (Main Chassis), H83 (Power Transformer), H82 (Resistor Network), H84 (Capacitor Network), H86 (Antenna Holder), H87 (Antenna Holder).
- Connectors and Cables:** H72 (Coaxial Connector), H73 (Coaxial Connector), H74 (Coaxial Connector), H75 (Coaxial Connector), H76 (Coaxial Connector), H77 (Coaxial Connector), H78 (Coaxial Connector), H79 (Coaxial Connector), H80 (Coaxial Connector), H81 (Coaxial Connector), H82 (Coaxial Connector), H83 (Coaxial Connector), H84 (Coaxial Connector), H85 (Coaxial Connector), H86 (Coaxial Connector), H87 (Coaxial Connector), H88 (Coaxial Connector), H89 (Coaxial Connector), H90 (Coaxial Connector), H91 (Coaxial Connector), H92 (Coaxial Connector), H93 (Coaxial Connector), H94 (Coaxial Connector), H95 (Coaxial Connector), H96 (Coaxial Connector), H97 (Coaxial Connector).
- Other Components:** H71 (Resistor), H72 (Resistor), H73 (Resistor), H74 (Resistor), H75 (Resistor), H76 (Resistor), H77 (Resistor), H78 (Resistor), H79 (Resistor), H80 (Resistor), H81 (Resistor), H82 (Resistor), H83 (Resistor), H84 (Resistor), H85 (Resistor), H86 (Resistor), H87 (Resistor), H88 (Resistor), H89 (Resistor), H90 (Resistor), H91 (Resistor), H92 (Resistor), H93 (Resistor), H94 (Resistor), H95 (Resistor), H96 (Resistor), H97 (Resistor).

The diagram illustrates the assembly sequence and the spatial arrangement of these components within the receiver chassis.



Model No. COMPACT 1200CD

ICS/TRANSISTORS CONNECTIONS:

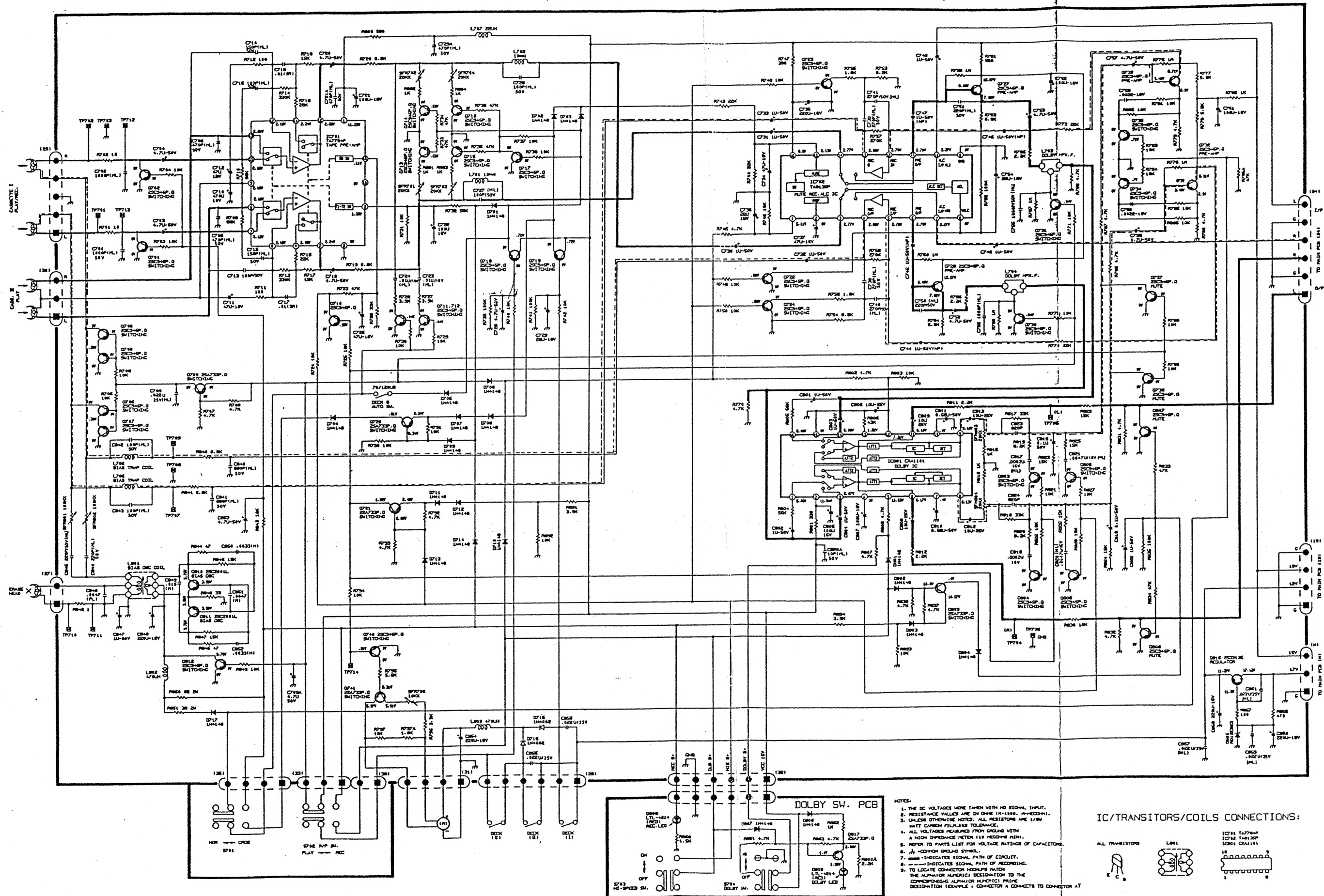


- NOTES:
1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
  2. RESISTANCE VALUES ARE IN OHMS  $10 \pm 1000$ ,  $100 \pm 10000$ .
  3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE  $1/8$  WATT CARBON FILM,  $\pm 5\%$  TOLERANCE.
  4. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER  $100$  MEGOHMS MIN.
  5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
  6.  $A_1$  - COMMON GROUND SYMBOL.
  7.  $A_2$  - INDICATES SIGNAL PATH OF CIRCUIT.
  8. TO LOCATE CONNECTION HOLES MATCH THE ALPHA (OR NUMERIC) DESIGNATION TO THE CORRESPONDING ALPHA (OR NUMERIC) PRIME DESIGNATION  
(EXAMPLE - CONNECTION A CONNECTS TO CONNECTION A')

# Cassette Schematic Diagram

Model No. COMPACT 1200CD

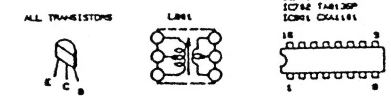
Model No. COMPACT 1200CD



NOTES:

1. THE DC VOLTAGES WERE TAKEN WITH NO SIGNAL INPUT.
2. RESISTANCE VALUES ARE IN OHMS (K=1000, M=1000000).
3. UNLESS OTHERWISE NOTED, ALL RESISTORS ARE 1/8W.
4. ALL VOLTAGES MEASURED FROM GROUND WITH A HIGH IMPEDANCE METER (100K OHMS MIN).
5. REFER TO PARTS LIST FOR VOLTAGE RATINGS OF CAPACITORS.
6. A - COMMON GROUND SYMBOL.
7. --- INDICATES SIGNAL PATH OF CIRCUIT.
8. --- INDICATES SIGNAL PATH OF RECORDING.
9. TO LOCATE CONNECTOR HOOP/LEAD PATCH THE ALPHANUMERIC DESIGNATION TO THE CORRESPONDING ALPHANUMERIC PRIME DESIGNATION (EXAMPLE: CONNECTOR A CONNECTS TO CONNECTOR AT

IC/TRANSISTORS/COILS CONNECTIONS:





# Power Amplifier Schematic Diagram

Model No. COMPACT 1200CD

Model No. COMPACT 1200CD

